

WHAT IS CLAIMED IS:

1. In an electronic switch of the type employing a pressure sensitive bridge array for monitoring a pressure to activate an indicator when the monitored pressure exceeds a predetermined value indicative of a dangerous condition in combination therewith of a shunt calibration apparatus for enabling a user to test said switch prior to the application of said monitored pressure comprising:

an impedance having one terminal connected to an output terminal of said bridge,

switching means coupled to said other terminal of said impedance to enable said impedance to selectively shunt said bridge to force said bridge to provide an output indicative of said dangerous condition when said switching means is operated in a first state and to effectively isolate said impedance from said bridge when said switching means is operated in a second state.
2. The electronic switch according to claim 1 wherein said pressure resistive bridge is a Wheatstone bridge.
3. The electronic switch according to claim 1 wherein said Wheatstone Bridge includes at least one piezoresistor.
4. The electronic switch according to claim 1 wherein said impedance is a resistor.
5. The electronic switch according to claim 1 wherein said indicator is a lamp.

6. An electronic switch apparatus, comprising;
 - a bridge circuit responsive to applied pressure to provide at an output a voltage proportional to applied pressures,
 - a control circuit coupled to said bridge for receiving said output voltage and for providing an indication when said voltage exceeds a predetermined value indicative of an improper pressure,
 - switching means responsive to said provided indication to operate an indicator capable of notifying a user of said improper pressures,
 - an impedance having a first terminal coupled to an output of said bridge and a second terminal,
 - a selectively operated switch having one terminal coupled to said second terminal of said impedance with said other terminal coupled to a point of reference potential, said switch when selectively operated in a first position causing said impedance to shunt said bridge to cause said bridge to provide a voltage indicative of said improper pressure during the absence of any applied pressure to said bridge and operative on a second resistor to isolate said resistor from said bridge whereby a user can determine whether said switch will be operative upon application of an applied pressure.
7. The electronic switch apparatus according to 6 wherein said bridge is a piezoresistive bridge.

8. The electronic switch apparatus according to claim 6 wherein said impedance is a resistor selected in magnitude to shunt said bridge to enable said bridge to provide a voltage indicative of said improper pressure.
9. The electronic switch apparatus according to claim 6 wherein said switching means includes a transistor having a control electrode coupled to said control circuit and responsive to said provided indication to turn on said transistor having first and second output electrode with one output electrode coupled to a pair of reference potential.
10. The electronic switch apparatus according to claim 9 wherein said indicator is a lamp housing one terminal coupled to said other output terminal of said transistor and said other lamp terminal coupled to a source of operating potential.
11. The electronic switch apparatus according to claim 10 wherein said transistor is a MOSFET or a bipolar transistor.
12. The electronic switch apparatus according to claim 7 wherein said bridge is a piezoresistive Wheatstone bridge.

